

To whom it may concern,

NOVA Acoustics have reviewed the document Ref: 5057_002M_1-0_CW which undertakes a review of our noise impact assessment.

The assessment provided within our report outlines a worst-case scenario and provides a minimum sound insulation requirement for all building elements.

Considering the facade and roof of the proposed development will provide significantly more sound insulation the reported noise levels at the noise-sensitive receptor will likely be lower than stated in reality.

The document and review conclude that the sound insulation scheme presented is sufficient however further assessment should be undertaken assuming ventilation/overheating either via open windows or an alternative means. The review also states that the assessment should consider octave band noise levels between 125Hz - 4kHz.

Sufficient ventilation and overheating prevention can easily be provided with an alternative means of ventilation either via trickle ventilation or through wall vents all of which can be selected to provide the minimum sound reduction requirement of 29 dB $D_{n,e,w}$ or more.

Multiple products which can provide the required attenuation are outlined below.

Titon trickle 4400EA Attenuation when open 33 dB $D_{n,e,w}$

Titon through wall 9x3 acoustic AirLiner set with hit & miss ventilator when open 38 dB $D_{n,e,w}$

Titon mechanical through wall Sonair F+ 55 dB $D_{n,e,w}$

As can be seen, the minimum requirement for sound insulation can easily be achieved by the above ventilation systems and as such by default if these were to be installed the impact rating at the NSR would be 'Not significant' in accordance with the IEMA Guidelines on Noise Impact Assessment, this equates to 'No Observed Effect Level' when assessed in with the NPPF and NPSE. When considering the site already operates as a place of worship any impact is likely reduced further as this type of noise is already present within the acoustic environment at the noise sensitive receptor.

It is not clear why an octave band or entertainment noise assessment has been requested as the site is solely used as a place of worship with no amplified speech or amplified music thus there will be minimal low-frequency noise to contend with. The human voice specifically at raised effort levels centres around 500Hz - 1Khz therefore an A-weighted global figure assessment is more than appropriate in this instance.

Kind regards

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